Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

(Original) A method for solving nogood databases, comprising:
 generating a representation comprising a plurality of contexted disjunctions;
 conjoining all of the contexted disjunctions to form a conjunction of contexted disjunctions; and

storing the representation as the conjunction of contexted disjunctions.

- 2. (Original) The method of claim 1, further comprising eliminating nogoods by refining the representation until a result of the conjunction of contexted disjunctions is backtrack-free or the result of the conjunction of contexted disjunctions reduces to false.
- 3. (Original) The method of claim 2, wherein refining the representation is carried out without reordering the disjunctions.
- 4. (Original) The method of claim 2, wherein refining the representation is carried out without merging the disjunctions.
- 5. (Original) The method of claim 1, further comprising transforming the representation so that the conjunction of contexted disjunctions is backtrack-free.
- 6. (Original) The method of claim 5, wherein transforming the representation is carried out without reordering the disjunctions.
- 7. (Original) The method of claim 5, wherein transforming the representation is carried out without merging the disjunctions.
- 8. (Original) The method of claim 1, further comprising transforming the representation so that choosing any disjunct from each of the disjunctions results in a valid solution.

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- 9. (Original) The method of claim 8, wherein transforming the representation is carried out without reordering the disjunctions.
- 10. (Original) The method of claim 8, wherein transforming the representation is carried out without merging the disjunctions.
- 11. (Original) A system for solving nogood databases, comprising:

 a storage device that stores a representation comprising a plurality of contexted disjunctions; and

a processor that conjoins all of the contexted disjunctions to form a conjunction of contexted disjunctions and replaces the representation with the conjunction of contexted disjunctions.

- 12. (Original) The system of claim 11, further comprising a processor that eliminates nogoods by refining the representation until a result of the conjunction of contexted disjunctions is backtrack-free or the result of the conjunction of contexted disjunctions reduces to false.
- 13. (Original) The system of claim 11, further comprising a processor that transforms the representation so that the conjunction of contexted disjunctions is backtrack-free.
- 14. (Original) The system of claim 11, further comprising a processor that transforms the representation so that choosing any disjunct from each of the disjunctions results in a valid solution.
- 15. (New) The method of claim 1, further comprising:
 solving a nogood database using the representations, the nogood database comprising at least one nogood.

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16. (New) The method of claim 1, wherein a nogood is a propositional variable or a conjugaction of propostional variables whose associated constraints are unsatisifable.